

MS#183303.01 (4965)
PATENTAmendments to the Specification:

Please replace paragraph [0030] with the following amended paragraph:

[0030] In a typical OLAP application, the architecture defines dimensions to allow a user to examine facts [[12]] 14 from different perspectives (i.e., to look at the metrics). When a dimension grows to an unmanageable size, the user has difficulty in using it to manipulate the metrics for analysis. Moreover, performance problems worsen during aggregations because the increased number of permutations that the system must calculate triggers a greater degree of data explosion and increases the amount of physical memory needed when loading the dimensions.

Please replace paragraph [0048] with the following amended paragraph:

[0048] The computer 70 typically has at least some form of computer readable media. Computer readable media, which include both volatile and nonvolatile media, removable and non-removable media, may be any available medium that can be accessed by computer 70. By way of example and not limitation, computer readable media comprise computer storage media and communication media. Computer storage media include volatile and nonvolatile, removable and non-removable media implemented in any method or technology for storage of information such as computer readable instructions, data structures, program modules or other data. For example, computer storage media include RAM, ROM, EEPROM, flash memory or other memory technology, CD-ROM, digital versatile disks (DVD) or other optical disk storage, magnetic cassettes, magnetic tape, magnetic disk storage or other magnetic storage devices, or any other medium that can be used to store the desired information and that can be accessed by computer 70. Communication media typically embody computer readable instructions, data structures, program modules, or other data in a modulated data signal such as a carrier wave or other transport mechanism and include any information delivery media. Those skilled in the art are familiar with the modulated data signal, which has one or more of its characteristics set or changed in such a manner as to encode information in the signal. Wired media, such as a wired network or direct-wired connection, and wireless media, such as acoustic, RF, infrared, and other

MS#183303.01 (4955)
PATENT

wireless media, are examples of communication media. Combinations of any of the above are also included within the scope of computer readable media.

Please replace paragraph [0050] with the following amended paragraph:

[0050] The computer 70 may also include other removable/non-removable, volatile/nonvolatile computer storage media. For example, FIG. 9 illustrates a hard disk drive 94 that reads from or writes to non-removable, nonvolatile magnetic media. FIG. 9 also shows a magnetic disk drive 96 that reads from or writes to a removable, nonvolatile magnetic disk 98, and an optical disk drive 100 that reads from or writes to a removable, nonvolatile optical disk 102 such as a CD-ROM or other optical media. Other removable/non-removable, volatile/nonvolatile computer storage media that can be used in the exemplary operating environment include, but are not limited to, magnetic tape cassettes, flash memory cards, digital versatile disks, digital video tape, solid state RAM, solid state ROM, and the like. The hard disk drive [[84]] 94, and magnetic disk drive 96 and optical disk drive 100 are typically connected to the system bus 76 by a non-volatile memory interface, such as interface 106.

Please replace paragraph [0054] with the following amended paragraph:

[0054] When used in a local area networking environment, computer 70 is connected to the LAN 136 through a network interface or adapter 140. When used in a wide area networking environment, computer 70 typically includes a modem 142 or other means for establishing communications over the WAN 138, such as the Internet. The modem 142, which may be internal or external, is connected to system bus 136 via the user input interface [[134]] 124, or other appropriate mechanism. In a networked environment, program modules depicted relative to computer 70, or portions thereof, may be stored in a remote memory storage device (not shown). By way of example, and not limitation, FIG. 9 illustrates remote application programs 144 as residing on the memory device. It will be appreciated that the network connections shown are exemplary and other means of establishing a communications link between the computers may be used.